

(19) World Intellectual Property
Organization
International Bureau



557511

(43) International Publication Date
9 December 2004 (09.12.2004)

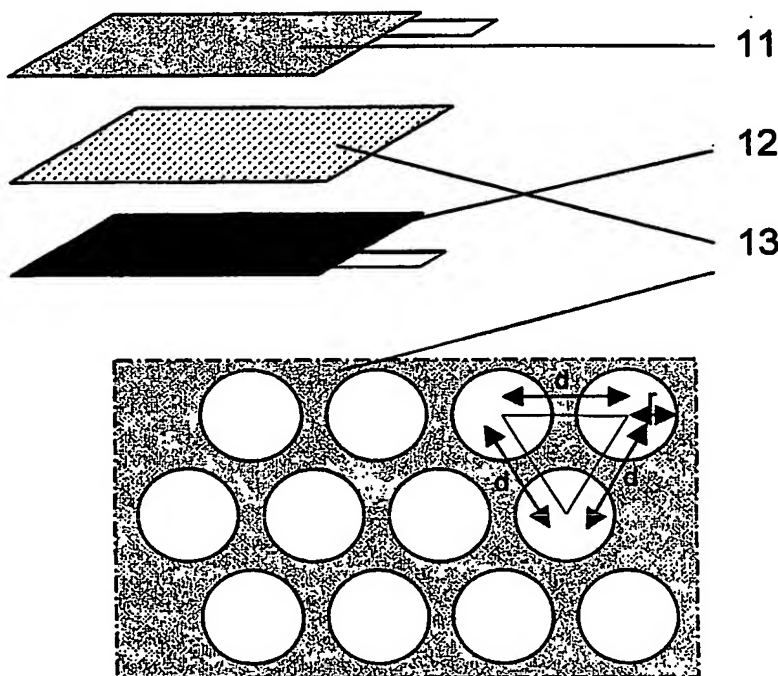
PCT

(10) International Publication Number
WO 2004/107479 A1

- (51) International Patent Classification⁷: **H01M 2/14** (74) Agent: KIM, Seong-Ki; 14F., Kukdong Building 60-1, Chungmuro3-ka, Chung-ku, Seoul 100-705 (KR).
- (21) International Application Number: PCT/KR2004/001257 (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (22) International Filing Date: 28 May 2004 (28.05.2004)
- (25) Filing Language: Korean
- (26) Publication Language: English
- (30) Priority Data:
10-2003-0034685 30 May 2003 (30.05.2003) KR
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- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:
— with international search report

[Continued on next page]

(54) Title: RECHARGEABLE LITHIUM BATTERY USING SEPARATOR PARTIALLY COATED WITH GEL POLYMER



r: 0.2mm, d: 0.5mm

(57) Abstract: Disclosed are a separator for a battery, which is coated with a gel polymer over 40-60% of total separator area, and a rechargeable lithium battery using the separator. The separator partially coated with a gel polymer reduces the battery resistance so that the battery power can be improved. Additionally, the separator increases electrolyte impregnation rate and provides uniform electrolyte impregnation, thereby improving the life, capacity and high-rate discharge property of a battery. Further, the separator permits electrode reactions to be performed uniformly, thereby preventing lithium precipitation and improving the battery safety.

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